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Serial No. 10/037,519

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel claims 5-8.

1. (Currently Amended) A method to detect the ability of a compound to promote disaggregation of alpha synuclein comprising the steps, in order:

(a) adding a compound, and Thioflavin T to an aggregated alpha synuclein solution wherein the alpha synuclein contains an enhancing peptide that is a synthetic peptide of alpha synuclein from about residues 61 to about 90 or a peptide fragment derived from about residues 61 to about 90 and from 61 to about 75 of the human alpha synuclein having a sequence selected from the group consisting of SEQ. ID. NO. 3 and SEQ. ID NO. 4, which is added to the synuclein solution, wherein the Thioflavin T will bind to the aggregated synuclein and produce a fluorescence at about 485 nm;

(b) incubating the solution of step (a) for sufficient time to allow the compound to change the aggregation state of the synuclein; and

(c) measuring fluorescence at about 485 nm at two different points in time to determine the reduction of fluorescence as an indication of a reduced aggregation state of the synuclein.

2. (Original) The method of claim 1 wherein the alpha synuclein is a purified, recombinant protein.

3. (Previously Presented) The method of claim 2 wherein the aggregated alpha synuclein further comprises the enhancing peptide being a synthetic peptide selected from the group consisting of SEQ.ID.NO.:3 and SEQ.ID.No.:4.

4. (Previously Presented) The method of claim 1 wherein the alpha synuclein is a synthetic peptide comprising residues 61 – 90 of alpha synuclein (SEQ.ID.NO.:3).

5-8 (Canceled)